

Title (en)

FUEL INJECTOR FOR A COMBUSTOR OF A GAS TURBINE

Title (de)

KRAFTSTOFFINJEKTOR FÜR BRENNKAMMER EINER GASTURBINE

Title (fr)

INJECTEUR DE CARBURANT POUR CHAMBRE DE COMBUSTION DE TURBINE À GAZ

Publication

EP 3450849 B1 20230412 (EN)

Application

EP 18191118 A 20180828

Priority

US 201715694191 A 20170901

Abstract (en)

[origin: EP3450849A1] A fuel injector 100 for a gas turbine combustor includes side wall fuel injection bodies 360 extending between opposite end walls 328. Each side wall fuel injection body defines a fuel plenum and includes an outer surface defining fuel injection ports in communication with the fuel plenum. One or more fuel injection bodies 340 extending between the end walls are positioned between the side wall fuel injection bodies 360. Each fuel injection body defines a fuel plenum 350 and includes an outer surface defining fuel injection ports 354 in fluid communication with the fuel plenum. A conduit fitting 332 coupled to the frame is fluidly connected to the respective fuel plenums. The fuel injection ports fluidly communicate with air flow paths defined between the fuel injection bodies and the side wall fuel injection bodies. A combustor for a gas turbine includes a liner and an axial fuel staging system with the present fuel injector.

IPC 8 full level

F23R 3/00 (2006.01); **F02C 7/22** (2006.01); **F02C 9/26** (2006.01); **F23R 3/34** (2006.01)

CPC (source: CN EP KR US)

F02C 7/22 (2013.01 - KR); **F02C 7/222** (2013.01 - EP US); **F02C 9/26** (2013.01 - EP US); **F23R 3/002** (2013.01 - EP US); **F23R 3/283** (2013.01 - KR); **F23R 3/286** (2013.01 - KR US); **F23R 3/34** (2013.01 - EP US); **F23R 3/38** (2013.01 - CN); **F05D 2240/35** (2013.01 - KR); **F23R 2900/00004** (2013.01 - EP US)

Citation (examination)

- EP 3401602 A1 20181114 - GEN ELECTRIC [US]
- US 2012272659 A1 20121101 - SYED KHAWAR [CH], et al
- EP 2208934 A1 20100721 - ALSTOM TECHNOLOGY LTD [CH]

Designated contracting state (EPC)

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DOCDB simple family (publication)

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DOCDB simple family (application)

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